WHAT IS CLAIMED IS:

1		1.	A method of eliminating or reducing infection in a biological material,
2	the method co	omprisir	ng removing a binding site contained in the material so that an infectious
3	agent is preve	ented or	inhibited from binding to the biological material.
1		2.	The method of claim 1, wherein the infection is prion infection, and the
2	infectious age		
۷	inicctious age	mi is pr	ion protein.
1		3.	The method of claim 1, wherein the biological material is bioprosthetic
2	tissue.		
1		4.	The method of claim 3, wherein the structural integrity of the tissue is
2	maintained.		
1		5.	The method of claim 3, further comprising contacting the bioprosthetic
2	tissue with a	prepara	tion comprising a surfactant.
	•	•	
1		6.	The method of claim 3, further comprising contacting the bioprosthetic
2	tissue with a	prepara	tion comprising a surfactant and a denaturing agent.
1		7.	The method of claim 6, wherein the surfactant is Tween 80.
1		8.	The method of claim 6, wherein the denaturing agent is a protic
2	solvent.		
1		9.	The method of claim 8, wherein the protic solvent is an alcohol.
-			•
1		10.	The method of claim 9, wherein the alcohol is ethanol or isopropanol.
1		11.	The method of claim 6, wherein the preparation further comprises an
2	cross linking		
	S	U	
1		12.	The method of claim 11, wherein the cross linking agent is an
2	aldehyde.		
1		13.	The method of claim 12, wherein the aldehyde is formaldehyde or
2	glutaraldehy		The medica of cumin 12,
4	grumanuchy	uv.	

i = i - i

1	14.	The method of claim 1, wherein the infectious agent binding site is	
2	comprised of phospholipid.		
1	15.	The method of claim 14, wherein the phospholipid is selected from the	
2	group consisting of	phosphatidylinositol, phosphatidylethanolamine,	
3		mide, phosphatidylserine, phosphatidylcholine, phosphatidic acid, and	
4	sphingomyeline.		
1	16.	The method of claim 14, further comprising contacting the tissue with	
2	a preparation including a phospholipase.		
1	17.	The method of claim 1, further comprising contacting the bioprosthetic	
2	tissue with a prepara	tion comprising formaldehyde, ethanol, and Tween 80.	
	_		
1	18.	The method of claim 2, wherein the prion protein further comprises	
2	prion-precursor prot	ein.	
1	19.	The method of claim 1, further comprising a terminal sterilization step.	
1	20.	The method of claim 1, further comprising washing the tissue to	
2	promote removal of	the prion protein.	
1	21.	A method of treating a biological material, the method comprising	
2	_	site contained in the material so that an unwanted protein is prevented or	
3	inhibited from bindi	ng to the biological material.	
1	22.	The method of claim 21, wherein the unwanted protein is selected from	
2	the group comprisin	g alkaline phosphatase, Thy-1, and acetylcholinesterase.	
1	23.	A method of eliminating or reducing infection in a biological material,	
2		ing removing a binding site comprising binding site a protein or	
3	-	tained in the material so that an infectious agent is prevented or inhibited	
4	from binding to the		
1	24.	The method of claim 23, wherein the infection is prion infection, and	
2	the infectious agent	is prion protein.	

2	maintained.	25.	The method of claim 23, wherein the structural integrity of the tissue is
1		26.	The method of claim 23, further comprising contacting the
2	bioprosthetic ti	ssue w	rith a preparation comprising an enzyme that digests the binding site.
1	2	27.	The method of claim 26, wherein the preparation comprises
2	heparinase, in a	ın amo	ount effective to remove the binding site.
1	2	28.	The method of claim 23, further comprising contacting the
2	bioprosthetic tis	ssue w	rith a preparation comprising a solvent, a surfactant, or a chaotropic
3	agent in an amo	ount ef	fective to extract the binding site from the tissue.
1	2	29.	The method of claim 23, further comprising contacting the
2	bioprosthetic tis	ssue w	rith a preparation that chemically derivatizes a polycationic site, thereby
3	eliminating the	bindir	ng site from the tissue.
1	·	30.	The method of claim 23, wherein the binding sites has binding affinity
2	to exogenous p	rion pı	rotein.
1	(31.	The method of claim 23, further comprising contacting the tissue with
2	a preparation th	at has	binding affinity for endogenous prion protein, so that a bound complex
3	is formed between	een the	e preparation and the endogenous prion protein.
1	<u> </u>	32.	The method of claim 31, further comprising a washing step to remove
2	the bound comp	plex fr	
1	<u> </u>	33.	A method of eliminating or reducing infection in a bioprosthetic tissue,
2	the method con	nprisin	ng blocking a binding site contained in the tissue so that an infectious
3		_	inhibited from binding to the binding site.
1	í	34.	The method of claim 33, wherein the infection of prion infection, and
2	the infectious a	gent is	•
1		35.	The method of claim 33, wherein the structural integrity of the tissue is
2	maintained.		or common

1	36.	The method of claim 33, wherein the blocking step further comprises
2	contacting the biop	prosthetic tissue with a preparation comprising one or more polysulfonated
3	polyglycosides.	
1	37.	The method of claim 36, wherein the one or more polysulfonated
2	polyglycosides are	e selected from a group consisting of pentosan polysulfate, sulfated
3	colomycin, dextra	n sulfate, sulfated carageenans, and heparin/heparan sulfate.
1	38.	The method of claim 36, wherein the contacting step is performed at a
2	temperature of abo	out 37° C.
1	39.	The method of claim 33, wherein the contacting step promotes the
2	dissociation of pri-	on protein from the bioprosthetic tissue.
1	40.	A method of eliminating or reducing infection in a bioprosthetic tissue
2	the method compr	ising blocking an infectious agent so that the infectious agent is prevented
3	or inhibited from l	pinding to a binding site in the tissue.
1	41.	The method of claim 40, wherein the infection is prion infection, and
2	the infectious ager	nt is prion protein.
1	42.	The method of claim 40, wherein the blocking step further comprises
2	contacting the bio	prosthetic tissue with a preparation comprising a compounds selected from
3	tetrasubstituted po	rphyrin, polyanionic fungal agent, congo red, fast red, trypan red and
4	combinations ther	eof.
1	43.	The method of claim 40, wherein the method is performed before,
2	during, or after fix	ation.
1	44.	The method of claim 40, wherein the method is performed during
2	bioburden reduction	on.
1	45.	The method of claim 40, wherein the method is performed during final
2	sterilization.	
1 .	46.	The method of claim 40, wherein the method is performed during
2	packaging.	

1		47.	The method of claim 46, further comprising storing the tissue in the
2	preparation.		
1		48.	The method of claim 42, wherein the preparation further comprises one
2	or more cross	s-linkab	le groups that prevent or inhibit dissociation of the one or more
3	polysulfonate	ed polyg	glycosides.
1		49.	The method of claim 48, wherein the cross-linkable group is selected
2	from a group	consist	ing of lysine groups and azide moieties.
1		50.	A method of eliminating or reducing calcification in a biological
2	material, the	method	comprising removing a phospholipid calcium nucleation site contained
3	in the materia	al so tha	at calcium is prevented or inhibited from binding to the biological
4	material.		
1		<i>E</i> 1	The mathed of claim 50, wherein the higherical meterial is
1	a	51.	The method of claim 50, wherein the biological material is
2	bioprosthetic	tissue.	
1		52.	The method of claim 50, wherein the structural integrity of the
2	bioprosthetic	tissue i	is maintained.
1.		53.	The method of claim 51, further comprising contacting the
2	bioprosthetic	tissue v	with a preparation comprising a surfactant.
1		E 1	The moth of of claim 51 fruther communicing contacting the
1	1.1	54.	The method of claim 51, further comprising contacting the
2	bioprostnetic	tissue	with a preparation comprising a surfactant and a denaturing agent.
1		55.	The method of claim 54, wherein the surfactant is Tween 80.
1		56.	The method of claim 54, wherein the denaturing agent is a protic
2	solvent.		
1		57.	The method of claim 54, wherein the preparation further comprises an
2	cross linking		• •
1		58.	The method of claim 50, wherein the phospholipid is selected from the
2	group consist	ting of 1	phosphatidylinositol, phosphatidylethanolamine,

gangliotetraosylceramide, phosphatidylserine, phosphatidylcholine, phosphatidic acid, and
sphingomyelin.
59. The method of claim 53, further comprising contacting the tissue with
a preparation including a phospholipase.
60. The method of claim 50, further comprising contacting the
bioprosthetic tissue with a preparation comprising formaldehyde, ethanol, and Tween 80.